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DESCRIPTORS: Genetics, *Chromosomes, *Genes, *Drosophilidae, Radiation effects, *Mutations, Morphology

(Biological Sciences, TT, v. 10, no. 3)

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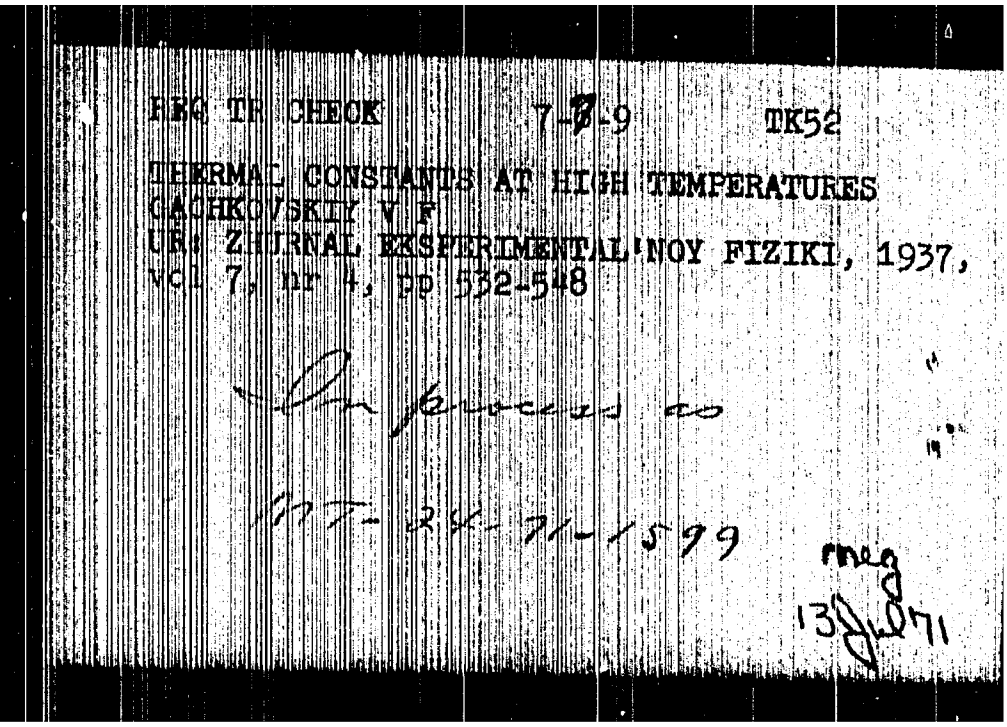

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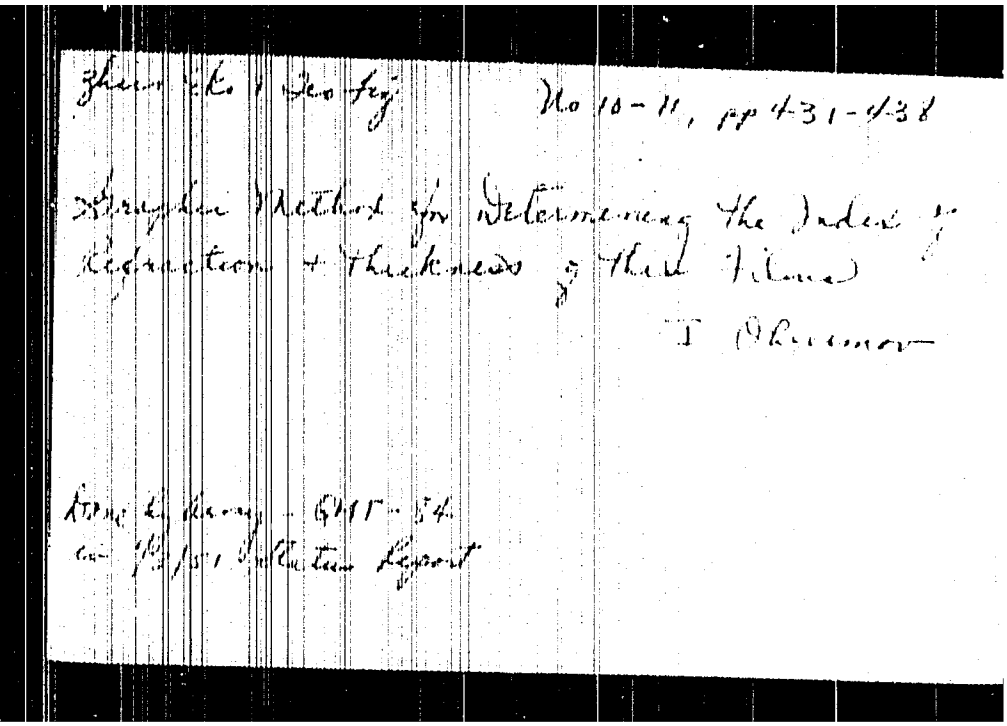

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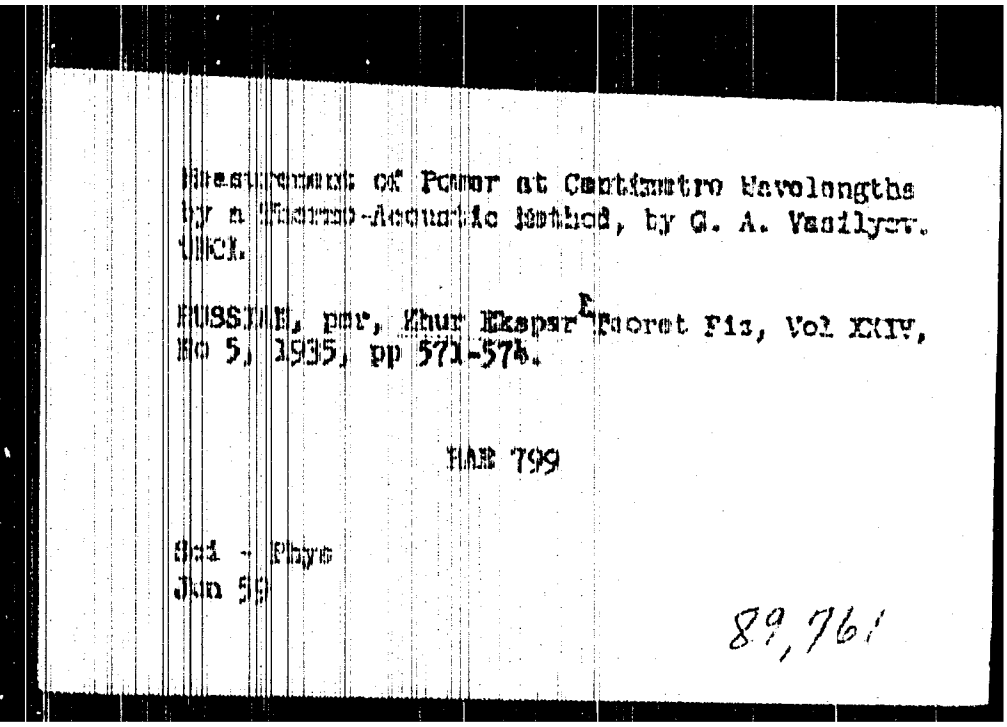

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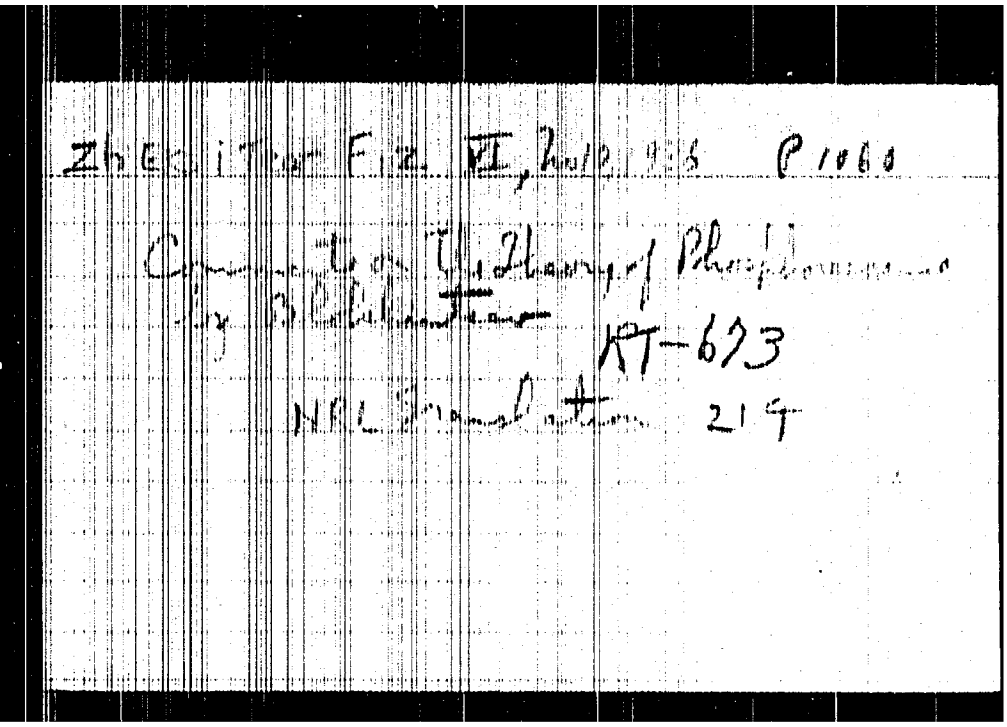

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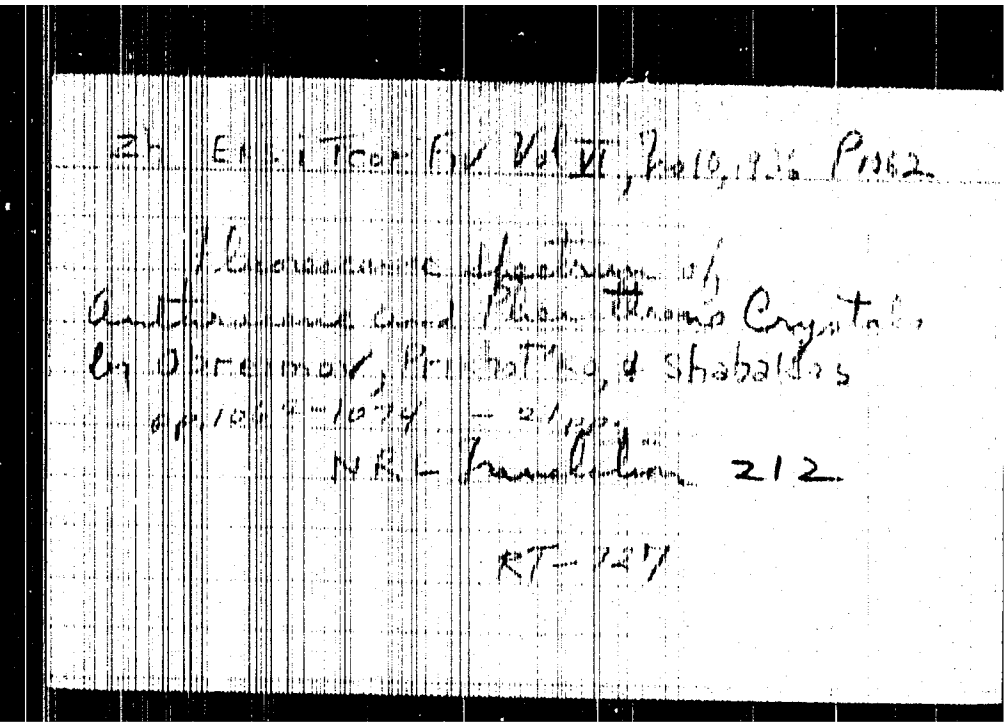

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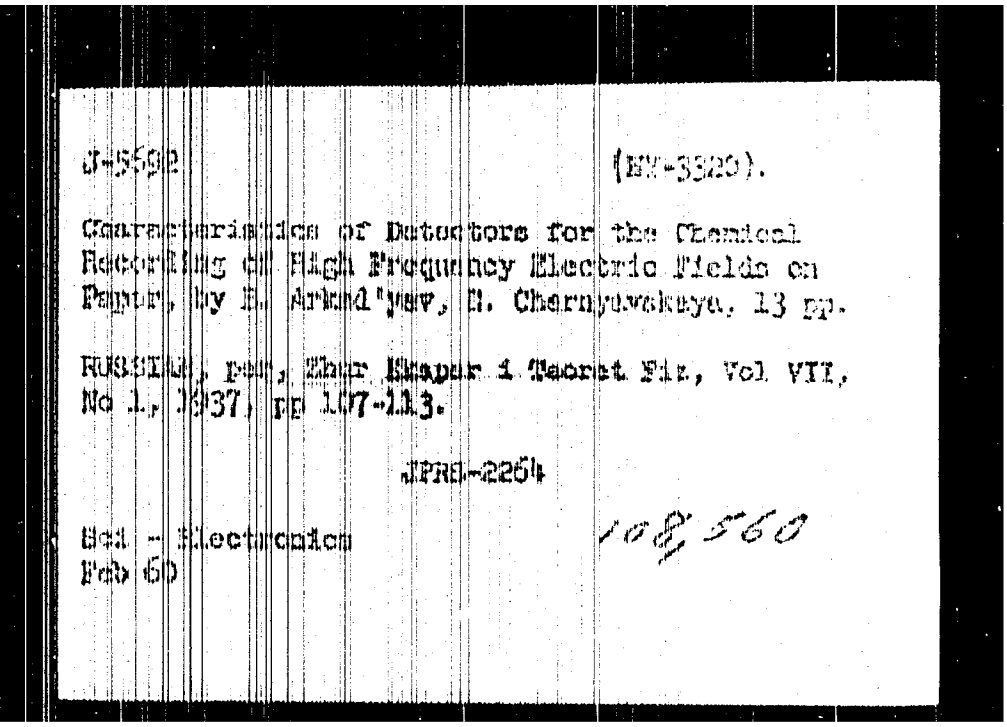

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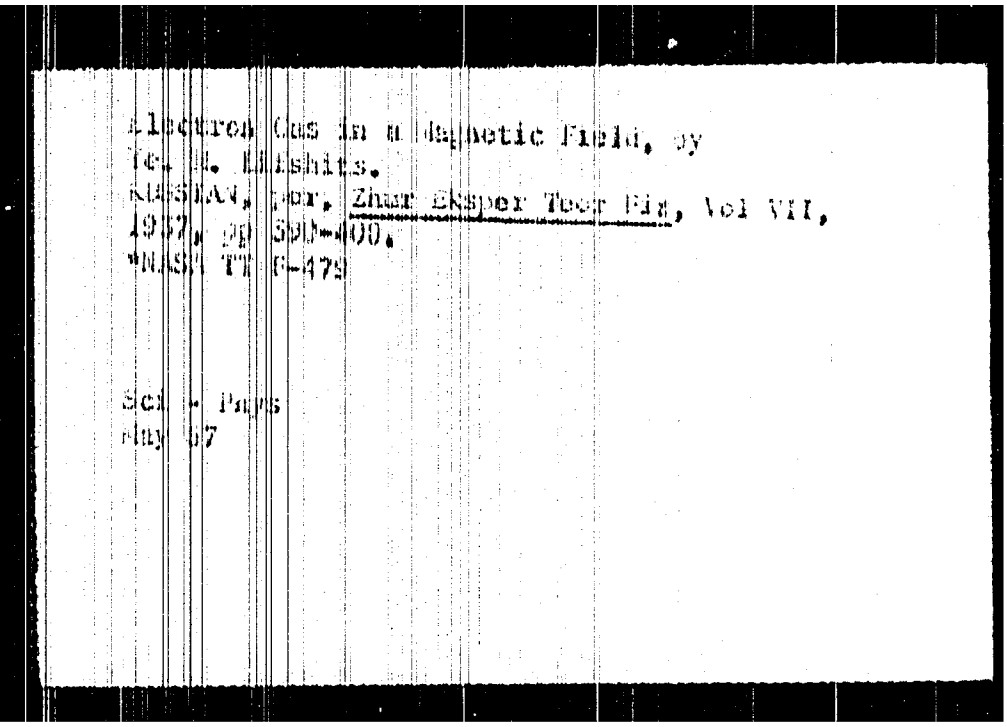

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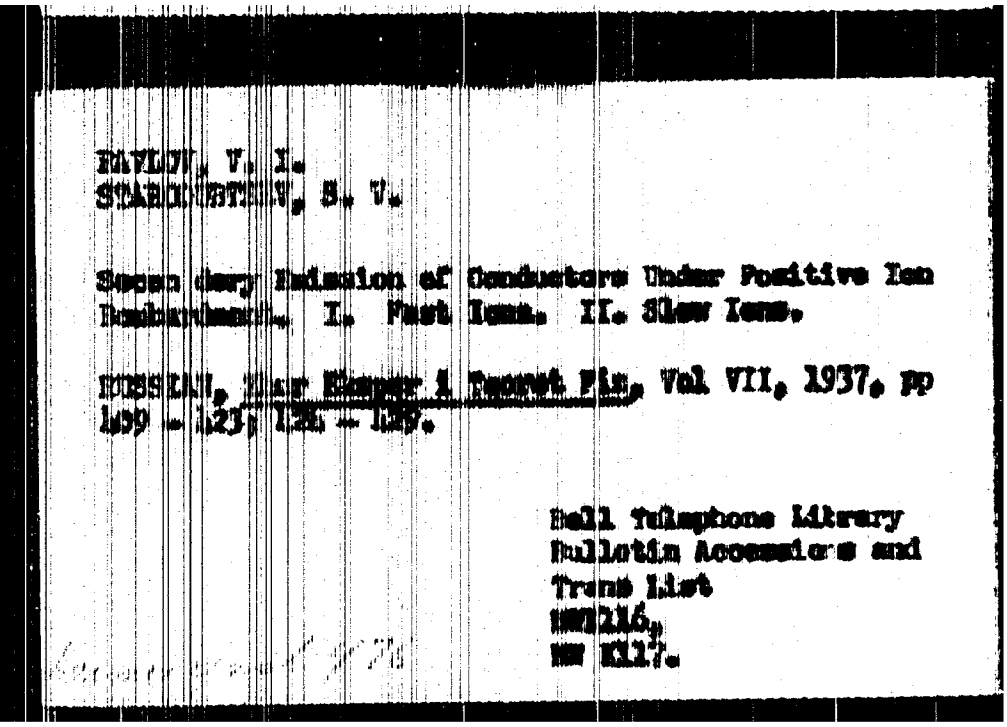

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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Sound Absorption in Solids, by G. L. Slonimskiy.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol VII, No 12, 1937, pp 1157-1162.

Sci Mus Lib Tr 56/3993

Sci - Physics
Jul 57

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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(NY-4827)

Limiting Principles of Freely-Rising Convective Streams, by Ya. B. Zel'dovich, 6 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol VII, No 11, 1937, pp 1463-1465.

JPRS 7217

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Sci - Phys

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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(NY-4827)

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JPRS 7230

Bal - Fluid

Dec 60

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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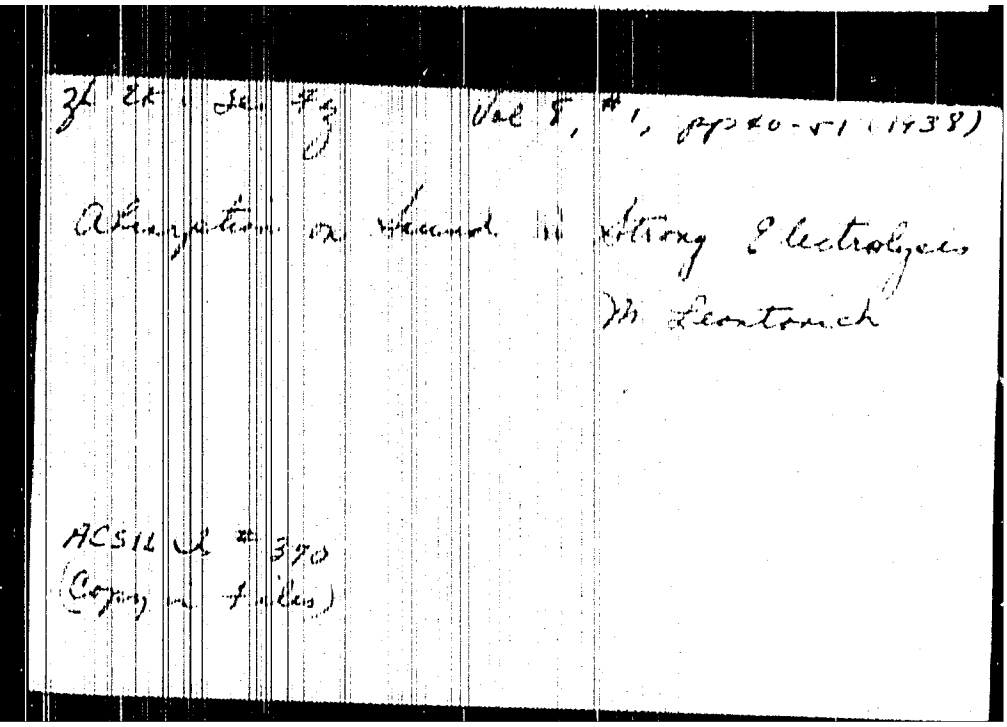

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Vibrational Properties of an Electron Gas, by
A. A. Vlasov, 60 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz,
Vol VIII, No 3, 1938, pp 291-318.

Sci Trans Center RT-3265

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Investigation of a Directed Beam of High-Speed Electrons Through Mercury Vapors in a Heated-cathode Discharge Tube, by V. Kolin, S. Gvozdover.

RUSSIAN, per. Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 8, No 4, 1938, pp 435-443. 0251703

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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Vol 8, No 6, 1938

pp 717-723

On the Anisotropy of the Hall Effect in Monocrystals of Zinc and Cadmium.
by M. I. Noskov

Navy No. 13/ NRL Trans. No 242

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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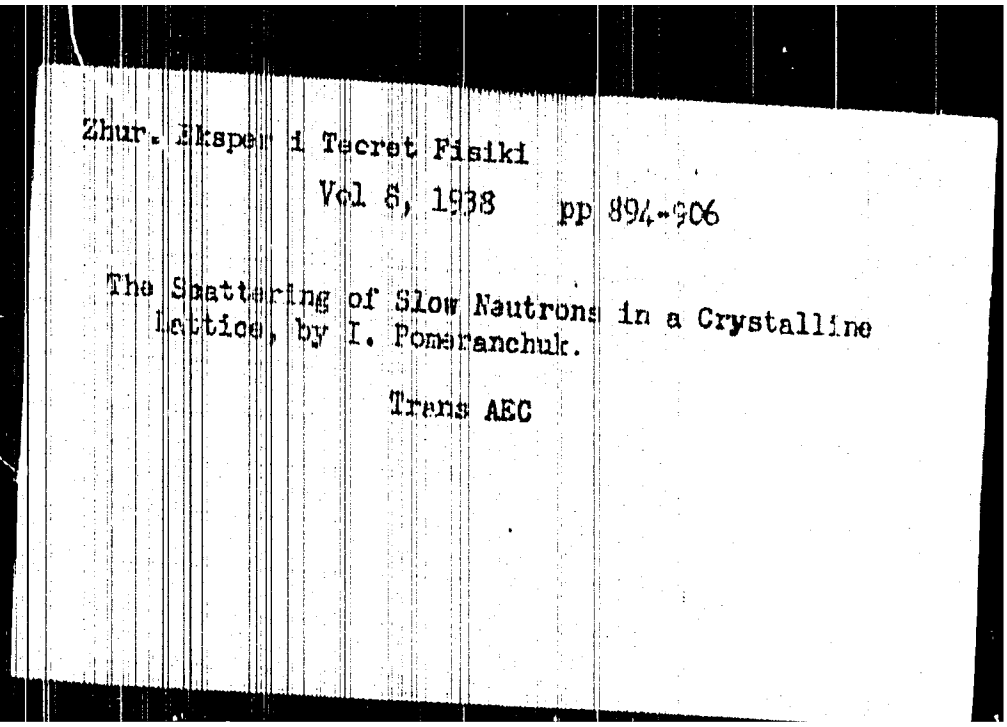

Zhur. Eksper i Teoret Fisiki
Vol 8, 1938 pp 894-906

The Scattering of Slow Neutrons in a Crystalline Lattice, by I. Pomeranchuk.

Trans AEC

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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Collision of Deuterons With Nuclei, by E. Lifshits,
2½ pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol VIII,
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AEC Tr 2868

Bal - Chem

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May 57

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(GP-1053)

Displacement of the Curie Point With Pressure, by O. I. Leypunskiy, 9 pp.

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JPRS 4059

Sol. - Phys

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New Slip Planes in Zinc, by A. F. Kolesnikov, 50 pp.

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CIA/FDD XX-1651
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(FDD 26413)

Diffraction of Molecules, by D. Blokhintsev, 12 pp.

RUSSIAN, bi mo pur, Zhur Eksper i Teoret Fiz
Vol VIII, No 12, Moscow 1938, pp 1249-1254.

CIA/FDD/U-7773

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

Krasnikov, A. I.
FLUORESCENCE OF AIR AND OF METALS
(O Flyuorestsentsii Vozdukha i Metallov). [1962] [21]p.
(foreign text included) 9 refs.
Order from OTS or SLA $2.60 62-16098

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1938, v. 8, [no. 12] p. 1285-1291.

DESCRIPTORS: Fluorescence, Air, Metals, X-Rays, X-ray photography.

(Unannounced)

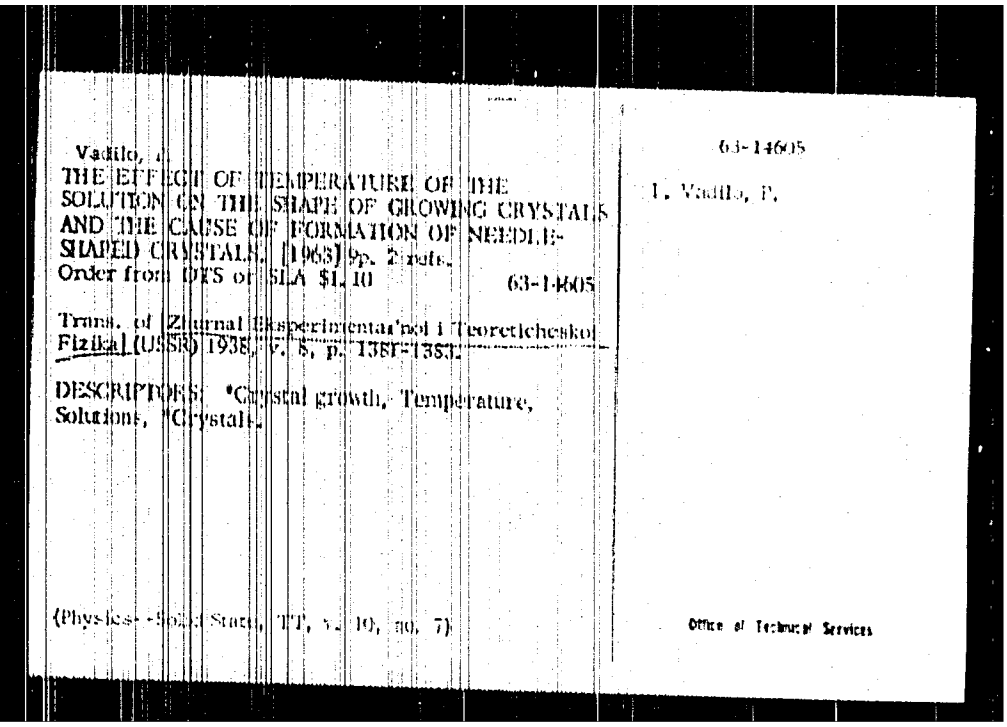
62-16098

I. Krasnikov, A. I.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6



Vadilo, I.
THE EFFECT OF TEMPERATURE OF THE SOLUTION ON THE SHAPE OF GROWING CRYSTALS AND THE CAUSE OF FORMATION OF NEEDLE-SHAPED CRYSTALS. [1963] 9pp. 2 refs.
Order from OTS or SLA $1.10 63-14605

Transl. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1938, v. 8, p. 1351-1353.

DESCRIPTORS: *Crystal growth, Temperature, Solutions, *Crystals.

(Physics-Solid State, TT, v. 10, no. 7)

63-14605

I. Vadilo, I.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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Zh Eks i Teoret Fiz Vol 9, page 72-5 (1939)

Heat Capacity of Ammonium Iodide Under Pressure.
by S. A. Zhunitsyn.

AEC Trans (avail. Brookhaven)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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Electron Drift in Plasma, by Kh. M. Fataliyev.
G. M. Spivak, et al.
RUSSIAN, per, Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 9, No 2, 1959, pp 167-175. 9231703
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Calculation of the Surface Energy and the Twinning Energy of Calcite, by F. Kaner, 11 pp.

RUSSIAN, per Zhur Eksper i Teoret Fiz, Vol IX, No 2, 1939, pp 218-222.

SLA 59-10504

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Vol 2, No 1

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On the Absorption of X-Rays by Metals, by A. I. Kobrinskiy, 32 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol IX, No 3, 1939, pp 257-279.

SLA 59-10971

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Vol. XI, No 2

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The Theory of the Equation of State, by S. N. Tkachenko.

RUSSIAN, pub, Chur Eksper i Teoret Fiz, Vol IX, No 5, 1939, pp 578-585.

ATS RJ-1729
ATS 80R22R

Sci - Chem
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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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Theory of Currents in Vacuum. I. The Case of Plane Parallel Electrodes, by S. V. Bolgurtin.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XX, 1949, pp 749-759.

AEC Tr 3590

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

14 795 At-1

FATALIEV L.

Influence of a weak magnetic field on a plasma

Einfluss eines schwachen Magnetfeldes auf das Plasma

Zhur. Eksptl'. i Teoret. Fiz., 9, No. 7, 813-823 (1939)

Ph. 1960/61, No. 142 - German

Euratom

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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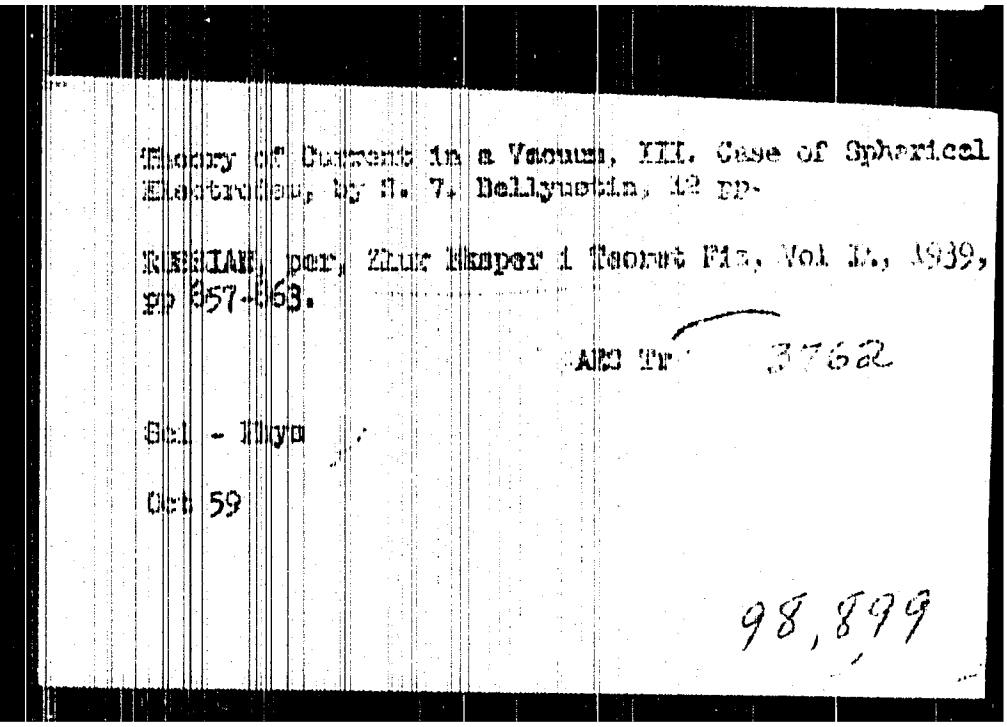

Theory of Currents in a Vacuum, III. Case of Spherical Electrodes, by N. V. Bellyustin, 12 pp.

RZHIAM, per, Zhur Eksper i Teoret Fiz, Vol 9, 1939, pp 957-963.

AEC Tr 3762

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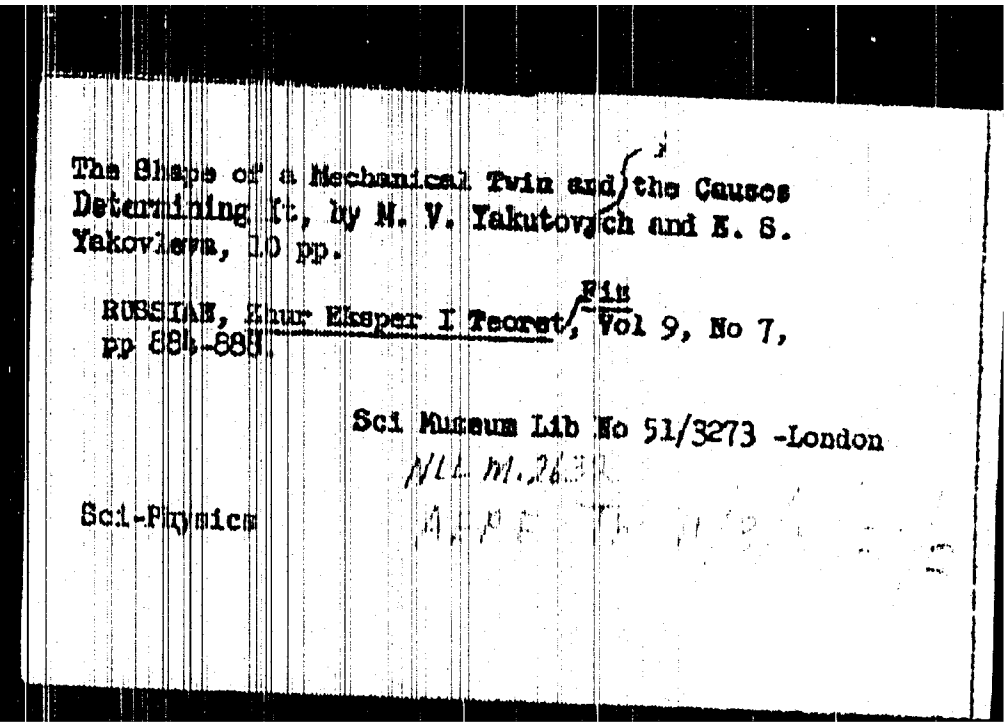

The Shape of a Mechanical Twin and the Causes Determining It, by M. V. Yakutovich and E. S. Yakovleva, 10 pp.

RUSSIAN, Zhur Eksper I Teoret Fiz, Vol 9, No 7, pp 881-883.

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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On the Criterion for Single Scattering of Fast Electrons, by L. Artsimovich.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, No 9, 1939, p 927.

AEC Tr 581

Scientific - Nuclear Physics

Sep 51 CTS

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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Pines, B. J.
THERMODYNAMICS OF THE PHASE TRANSITIONS OF THE SECOND ORDER. [1962] 12p. 4 refs.
Order from OTS or SLA. $1.60 62-18690

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1939, v. 9, no. 6, p. 963[-968].

DESCRIPTORS: *Phase transitions, *Thermodynamics, Phase theory, *Equations of state, Differential equations, Temperature, Pressure, Entropy, Volume.

Transitions of the second order are considered as taking place in a finite interval of temperature and pressure resulting in a finite change in entropy and volume. Validity of the Ehrenfest's equation along the whole transition path has been demonstrated (for the increase in the values of heat capacity and coefficients of expansion and compressibility connected with the (Physics--Thermodynamics, TT, v. 9, no. 10) (over)

62-18690

I. Pines, B. J.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

Sena, L. A.
METHODEN DER MESSUNG DER EFFEKTIVEN QUERSCHNITTE DER WECHSELWIRKUNG ZWISCHEN IONEN UND ATOMEN IM GAS (Methods of Measuring the Effective Cross Sections of the Interaction between Ions and Atoms in Gases). 14p. Order from TIB $2.95

Trans. in German of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1939 [v. 9] no. 9, p. 1061-1068.

DESCRIPTORS: Measurement, *Ions, *Atoms, Gases, *Proton cross sections.

(Nuclear Physics and Nuclear Chemistry, TT, v. 9, no. 11)

62-27305

I. Sena, L. A.
II. Technische Informations-bibliothek, Hannover (West Germany)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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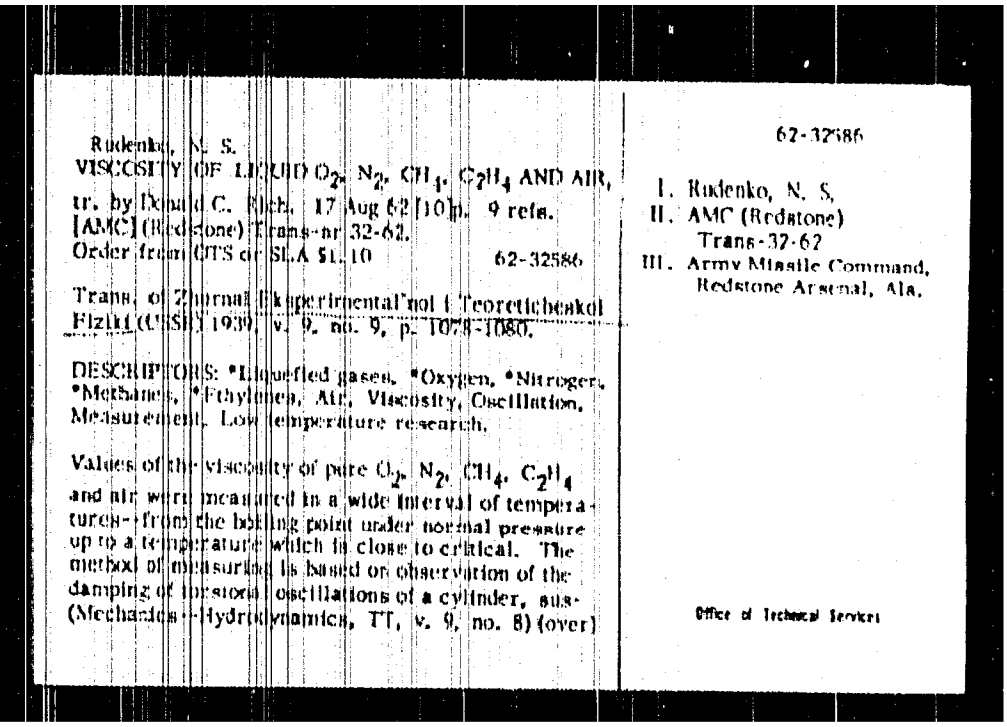

Rudenko, N. S.
VISCOSITY OF LIQUID O_2, N_2, CH_4, C_2H_4 AND AIR, tr. by Donald C. Rich, 17 Aug 62 [10]p. 9 refs.
[AMC] (Redstone) Trans-nr 32-62.
Order from OTS or SLA $1.10 62-32586

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1939, v. 9, no. 9, p. 1078-1080.

DESCRIPTORS: *Liquefied gases, *Oxygen, *Nitrogen, *Methanes, *Ethylenes, Air, Viscosity, Oscillation, Measurement, Low temperature research.

Values of the viscosity of pure O_2, N_2, CH_4, C_2H_4 and air were measured in a wide interval of temperatures--from the boiling point under normal pressure up to a temperature which is close to critical. The method of measuring is based on observation of the damping of torsional oscillations of a cylinder, sus-
(Mechanics--Hydrodynamics, TT, v. 9, no. 8) (over)

62-32586

I. Rudenko, N. S.
II. AMC (Redstone)
Trans-32-62
III. Army Missile Command, Redstone Arsenal, Ala.

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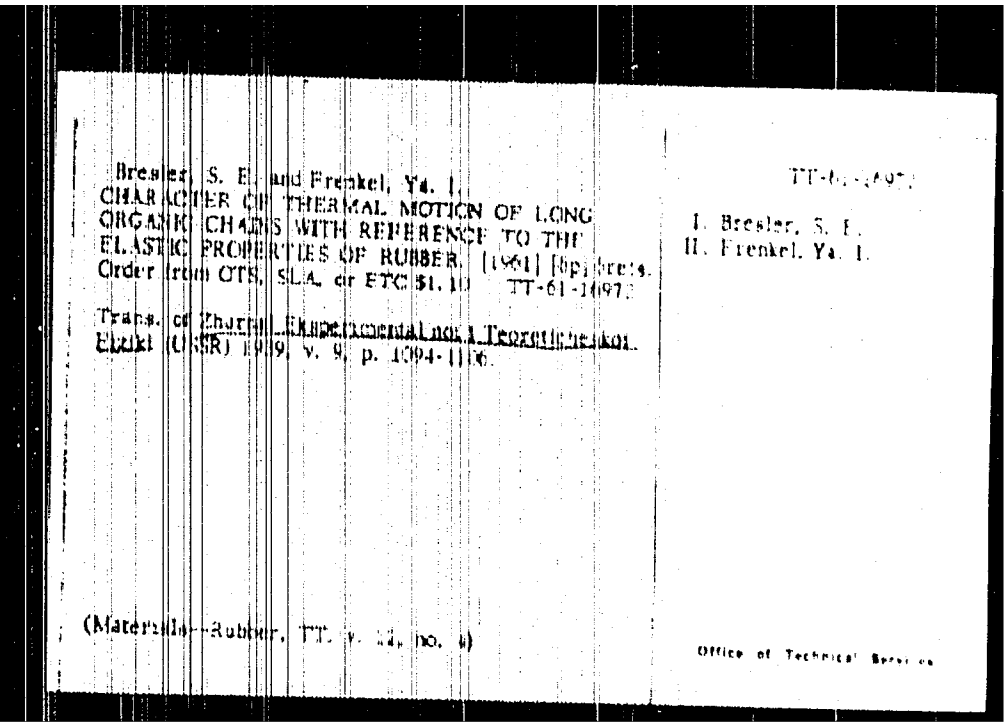

Bresler, S. E. and Frenkel, Ya. I.
CHARACTER OF THERMAL MOTION OF LONG ORGANIC CHAINS WITH REFERENCE TO THE ELASTIC PROPERTIES OF RUBBER. [1961] [6p.] Illus.
Order from OTS, SLA, or ETC $1.10 TT-61-1497

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1939, v. 9, p. 1094-1116.

(Materials--Rubber, TT, v. 41, no. 4)

I. Bresler, S. E.
II. Frenkel, Ya. I.

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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The Effect of the Magnetic Field Upon the Electrical Resistance of Single Crystals of Zinc and Cadmium at Low Temperatures. Part II, by B. G. Lazarev, N. M. Makhinovich, L. A. Purtsova, 6 pp. UNCLASSIFIED

Full translation.

RUSSIAN, Zhur Eksper i Teoret, Vol IX, No 10, USSR, 1939, pp 1182-1187.

Navy Tr 666/NRL 403

Scientific - Physics, Zinc, Cadmium

Sep 52 CTS/DEX

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Ion-Atom Interaction in Gases, by L. A. Sena.

RUSSIAN, per, Zhur Eksperimental'noi i
Theoret Fiz, Vol IX, No 11, 1939, pp 1320-1331.
9p 0 ref

AEC-Tr-5615

Sci - Phys

Apr 63

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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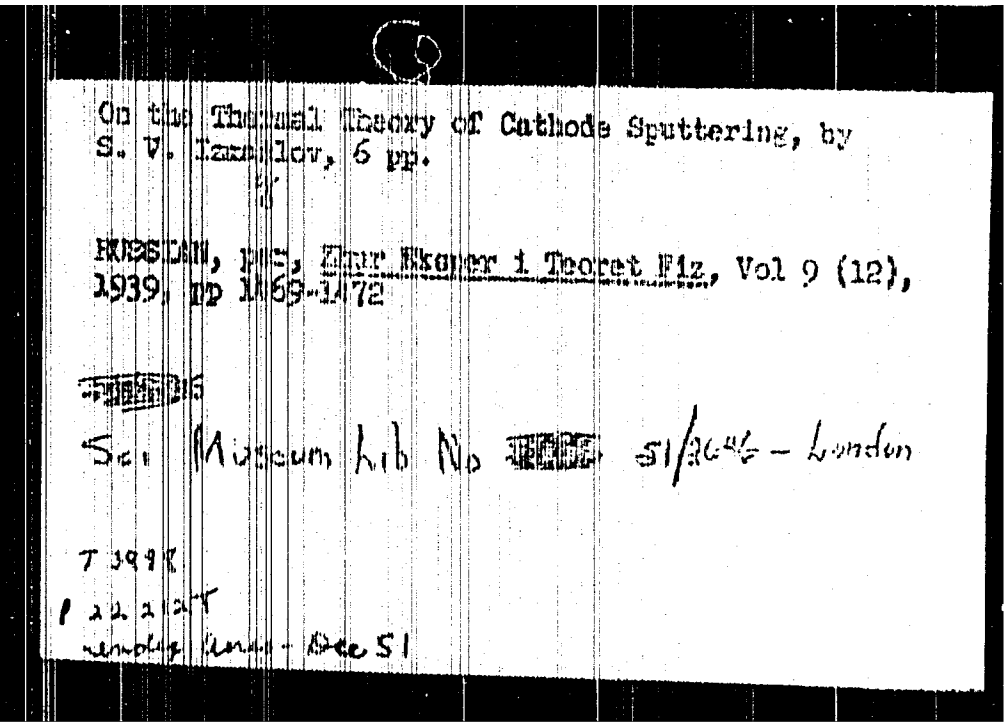


On the Thermal Theory of Cathode Sputtering, by S. V. Tamm, 6 pp.

[illegible], P.S., Zhur Eksper i Teoret Fiz, Vol 9 (12), 1939, pp 1169-1172

[illegible]

Science Museum Lib No [illegible] 51/364 - London

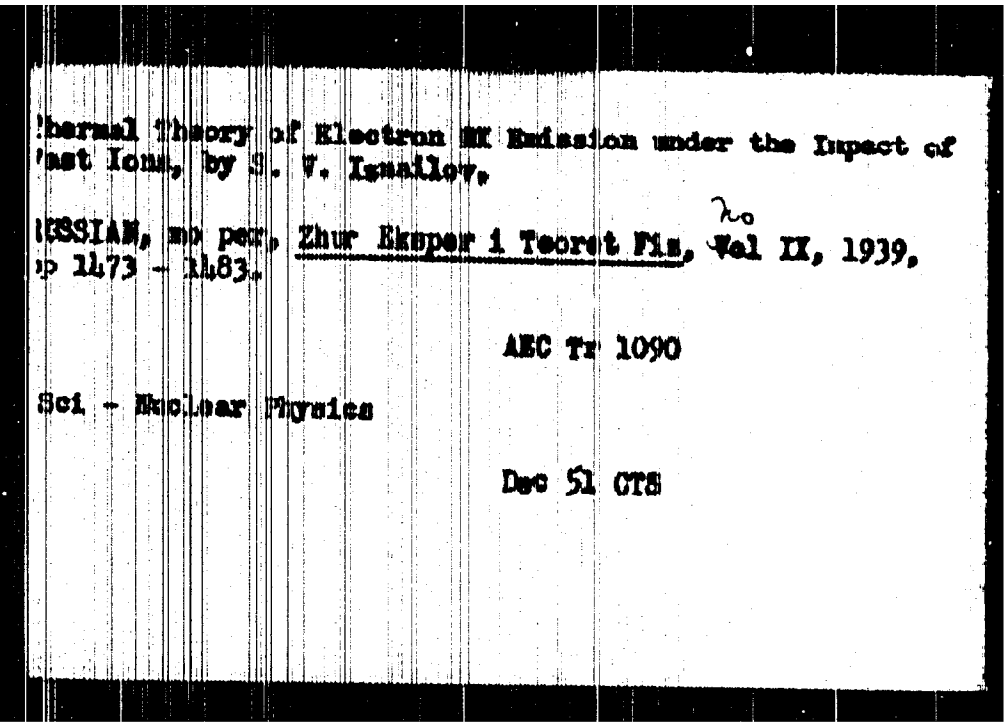
T 3997

[illegible]

[illegible] - Dec 51

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6



!hermal Theory of Electron EK Emission under the Impact of
'ast Ions, by S. V. Ismailov.

(SSIAN, mo per, Zhur Eksper i Teoret Fiz, Vol IX, 1939,
:p 1173 - 1183.

AEC Tr 1090

Sci - Nuclear Physics

Dec 51 CTS

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

On the Problem Concerning the Nature of Cathode Diffusion and Kinetic Emission of Secondary Electrons, by N. D. Morgulis, 24 pp.

RUSSIAN, no pub, Zhur Eksper i Teoret Fiz, Vol IX, No 12, 1939, pp 1423-1432.

ATIC F-TS-8321

Scientific - Physics
ATIC 17519
CIA 252255

15,123

Jun 50 CTS/DSX

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

Agency: Picatinny Arsenal R-11703-D
P.O.: Req. 123-70 1 June 1970

Title: Absorption Spectra & Photochemical Decomposition of Nitrobenzene Vapors. pp. 1527 to 1529.

Author: Shalegova, O.M.

Source: J. Exptl. Theoret. Phys. U.S.S.R. (JETP Letters) Vol. 9. (1969). 3pp

Language: Russian.

Special Instruction: Please translate & type 1 copy only

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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Zal'dovich, Ya.

Zal'dovich, Ya.
THEORY OF IGNITION BY A HOT SURFACE (Teoriya Zazhiganiya Nakalennoi Poverkhnost'yu). [1962] [11]p. (foreign text included) 3 refs.
Order from OTS or SLA $1.60 63-10878

Trans. of Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR) 1939, v. 9, no. 12, p. 1530-1534.

DESCRIPTORS: *Ignition, Gases, Surface temperature, *Autoignition, *Thermal conductivity, *Partial differential equations, Numerical analysis.

(Physics--Thermodynamics, TT, v. 10, no. 5)

63-10878

I. Zal'dovich, Ya.

CIA/FDD X-2100

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

Zh Eksp i Teoret Fiz Vol 10, page 29-36 (1940)

The chain decomposition of uranium by slow neutrons.
by Ya. B. Zel'dovich and Yu. B. Khariton.

AEC Trans (avail Brookhaven)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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The Thermal and Electrical Conductivity of Alkali Metals in the Liquid and Solid States, by P. A. Khalilov, 11 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol X, No 1, 1940, pp 50-57.

Sci Trans Center
RT 2173

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Jan 55 CTS/DSK

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Zh Eksp i Teoret Fiz Vol 10, page 477-82 (1940)

Kinetics of chain decomposition of uranium.
by Ya. B. Zel'dovich and Yu. B. Khariton.

AEC Trans(avail Brookhaven)

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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(NY-4822)

Application of Propagation Theory of an Arbitrary Discontinuity to Certain Cases of Gas Ignition, by Ya. B. Zel'dovich, K. I. Shchelkin, 17 pp.

RUSSIAN, pub. Zhur Eksper i Teoret Fiz, Vol X, No 5. 1940, pp 569-575.

JPRS 5508

Sci - Phys

Dec 60

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301660024-6

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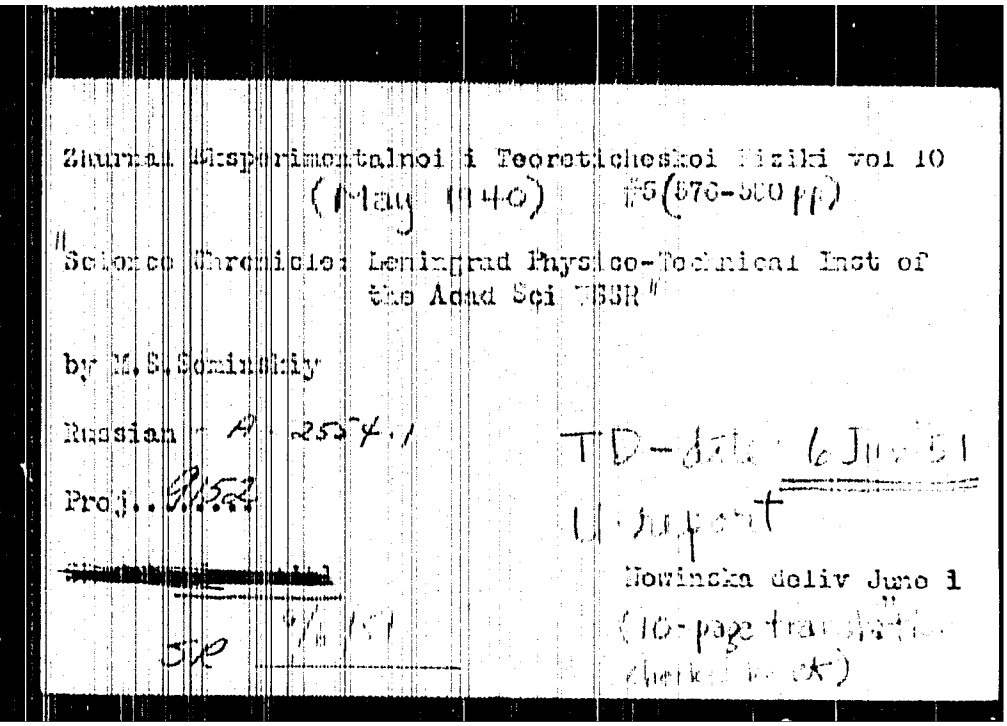

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by M.S. Sominskiy

Russian

Proj. 6554

TD-date: 6 Jun 51

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(10-page translation checked by *)

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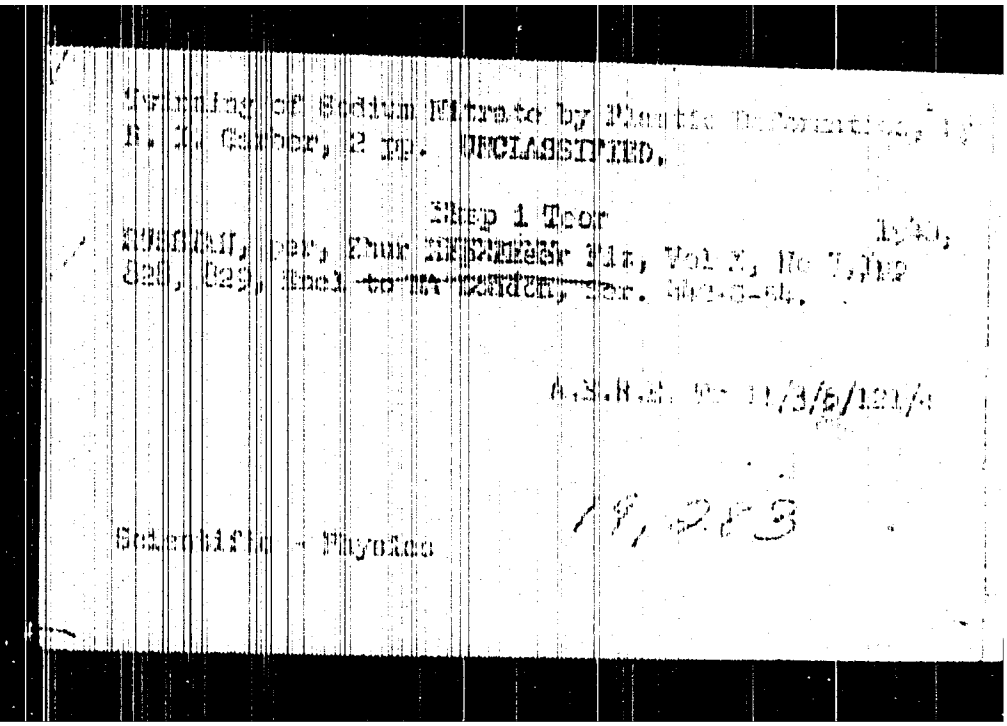

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KINETICS OF CHEMICAL REACTIONS IN FLAMES: THE THEORY OF FLAME PROPAGATION. I. [AND] RATIONAL FORMULAE FOR THE DEPENDENCE OF THE FLAME VELOCITY ON THE PARAMETERS. II (Kinetika Khimicheskikh Reaktsii v Plamenakh). Aug 47 [3]p. 38 refs. BISI-318 [DSIR LLU] M.2773. Order from OTS or SLA $3.60 61-23306

Trans. of [Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki] (USSR) 1940 [v. 10] 86: 9/10, p. 1116-1136. Another translation of pt. 1 is available from SLA as RT-402.

DESCRIPTORS: *Reaction kinetics, Chemical reactions, Flames, *Flame propagation, Propagation, Mathematical analysis.

A theory of flame propagation is developed and the behaviour of the chain processes taking place in the flames is investigated. The basis of the method of (Chemistry--Physical, TT, v. 6, no. 6) (over)

61-23306

I. Zeldovich, Ya. B.
II. Semenov, N. N.
III. Title: Theory ...
IV. Title: Rational ...
V. BISI-318
VI. DSIR LLU M.2773
VII. British Iron and Steel Industry Translation Service

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